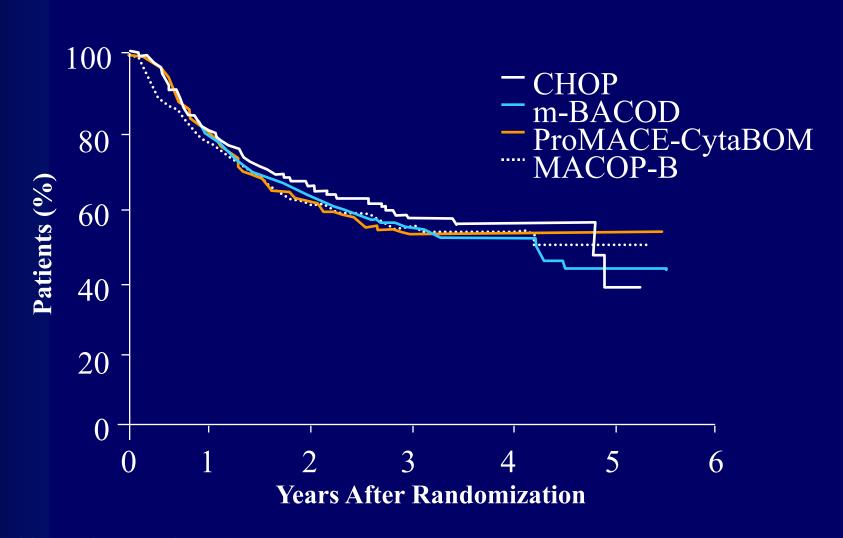




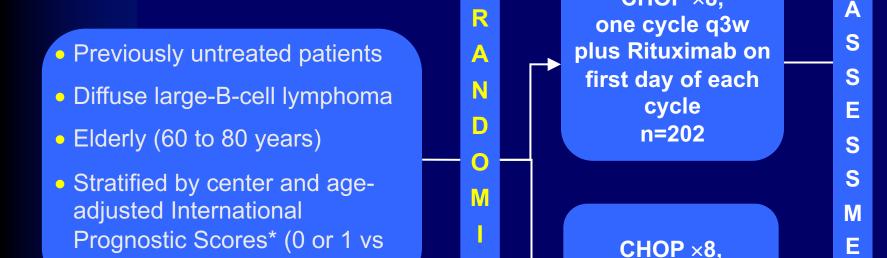
National High Priority Lymphoma Study: Progression-Free Survival



Advanced Stage (III/IV) DLBCL LNH 98-5 Trial (Gela Study)

CHOP ×8,

one cycle q3w n=197



- Primary endpoint: event-free survival
- Secondary endpoints: overall survival, response rates, and toxicity

Events were defined as disease progression or relapse, institution of a new anticancer treatment, or death from any cause without progression.

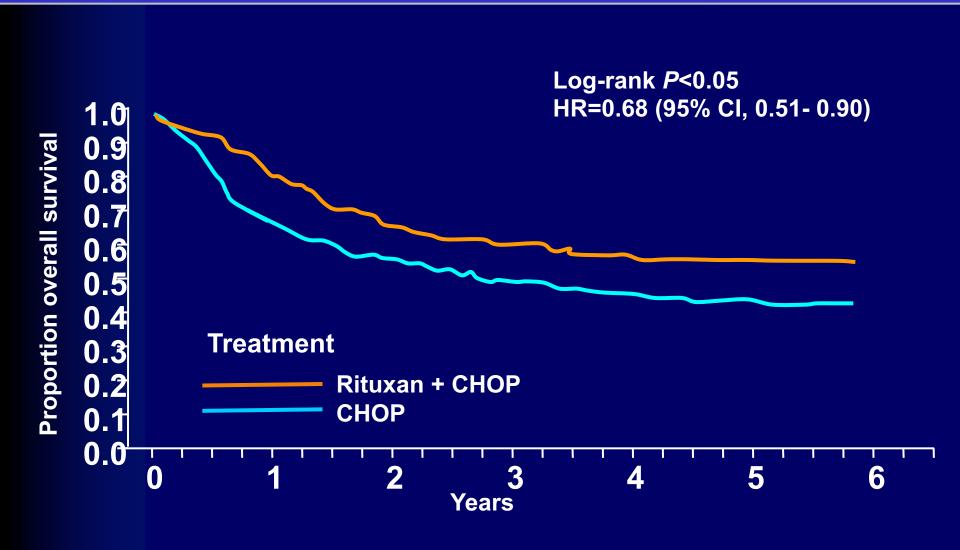
Z

*Based on disease stage, PS, and LDH.

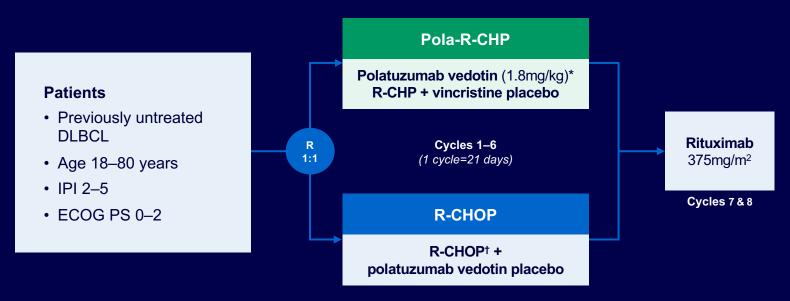
Coiffier et al. N Engl J Med. 2002;346:235.

2 or 3)

LNH 98-5 Trial: Overall Survival Median 5-Year Follow-up



Phase 3 POLARIX Study: Polatuzumab Vedotin + R-CHP Versus R-CHOP for Newly Diagnosed DLBCL—Study Design

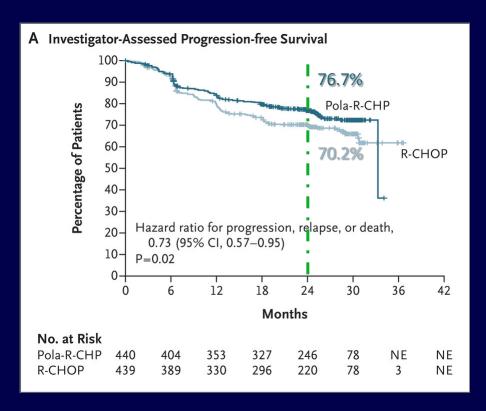


Stratification factors

- •IPI score (2 vs 3-5)
- •Bulky disease (<7.5 vs ≥7.5cm)
- •Geographic region (Western Europe, US, Canada, & Australia vs Asia vs rest of world)

- Primary endpoint: PFS (INV)
- Secondary endpoints: EFS, CR at EOT, DFS, OS, safety

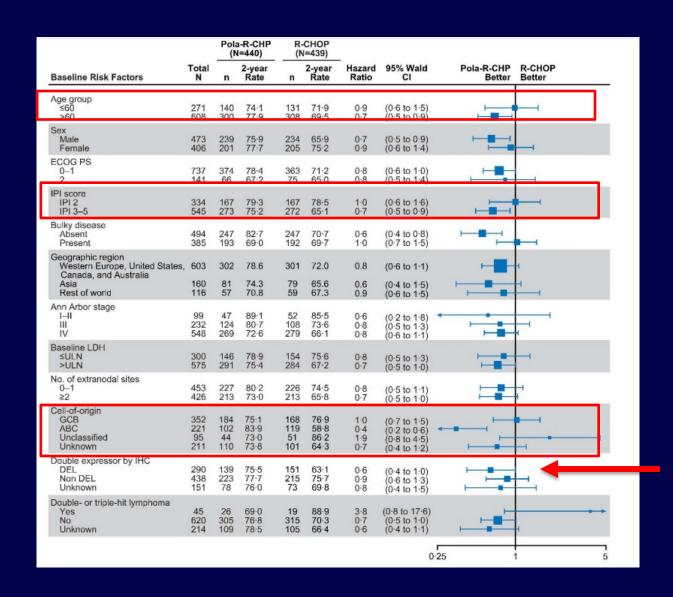
Phase 3 POLARIX Study: PFS (INV)— Primary Endpoint



 27% reduction in risk of progression, relapse or death with Pola-R-CHP

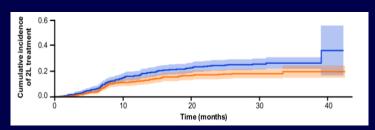
Phase 3 POLARIX Study: PFS (INV) by Subgroup

Exploratory Analysis



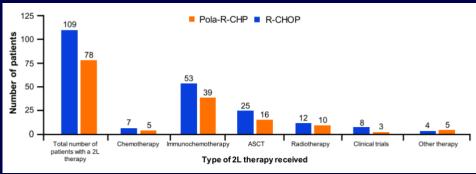
Analyses From the POLARIX Phase 3 Trial of Pola-R-CHP vs R-CHOP in Patients With 1L DLBCL: Impact on 2L Therapy Risk and Selection

Cumulative Incidence of 2L Therapy



 Patients treated with Pola-R-CHP were 34% less likely to require 2L therapy vs R-CHOP (HR: 0.66; 95% CI: 0.48-0.88)

Type of 2L Therapy by 1L Therapy Received

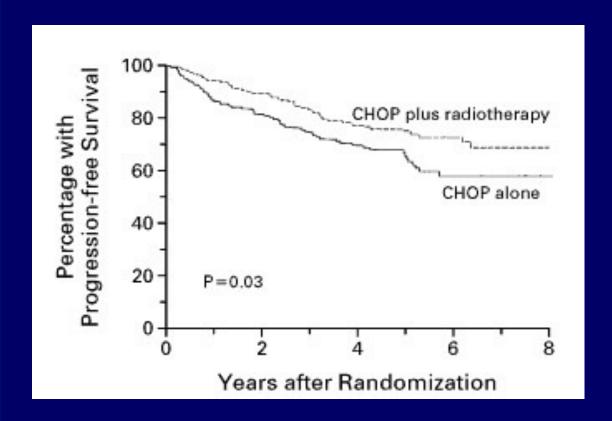


- Fewer patients receiving 2L therapy after Pola-R-CHP than after R-CHOP
- The distribution of 2L therapy types was similar, suggesting that Pola-R-CHP does not impact 2L therapy for R/R DLBCL
- Replacing R-CHOP with Pola-R-CHP for 1L therapy could reduce the need for 2L therapy by 27% over a 10-year period

Treatment of Early Stage DLBCL

Early Stage (I/II) DLBCL

Progression-free Survival of 201 Patients Receiving Eight Cycles of CHOP Alone and 200 Patients Receiving Three Cycles of CHOP plus Radiotherapy.





FLYER: Study Design

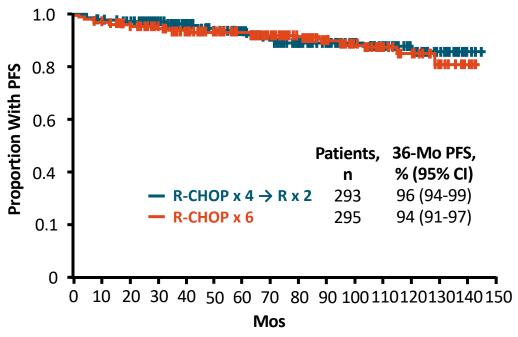
International, randomized phase III noninferiority trial

Patients with untreated aggressive
B-cell lymphoma, aged 18-60 yrs,
stage I/II disease, age-adjusted IPI = 0,
no bulky disease
(maximum diameter < 7.5 cm)
(N = 588)

R-CHOP x 4 cycles followed by
Rituximab x 2 cycles
(n = 293)

- Primary endpoint: PFS, 3-yr PFS rate
 - Assumed 3-yr PFS rate of 93% with R-CHOP x 6
 - − Difference up to -5.5% allowed with R-CHOP x 4 → R x 2 while still proving noninferiority with 80% power and 1-sided α = 0.05 (planned sample size: N = 592, assuming 10% loss yields final N = 532)
- Other endpoints: response, EFS, OS, safety

FLYER: PFS (Primary Endpoint)



■ After median f/u of 66 mos, PFS noninferior with R-CHOP x 4 \rightarrow R x 2 vs R-CHOP x 6

Poeschel. ASH 2018. Abstr 781. Reproduced with permission.



<u>"Standard"</u> Salvage Regimens for R/R DLBCL (Pre-Auto Transplant)

Table I. Salvage chemotherapy regimens in randomized studies for DLBCL [Gisselbrecht et al, 2010 (CORAL study); Crump et al, 2014 (LY.12 study); van Imhoff et al, 2017 (ORCHARRD study)].

Salvage induction	N	RR	Transplant rate	PFS
R-ICE	202	64%	51%	3-year: 31%
R-DHAP (CORAL)	194	63%	55%	3-year: 42%
(R)-DHAP (LY12)	304	45%	49%	3-year: 28%
(R)-GDP	306	44%	52%	3-year: 28%
R-DHAP (ORCHARRD)	223	42%	37%	2-year: 26%
O-DHAP (ORCHARRD)	222	38%	33%	2-year: 24%

⁽R)-GDP, (rituximab)-gemcitabine, dexamethasone, cisplatinum; DLBCL, diffuse large B cell lymphoma; O-DHAP, Ofatumumab- dexamethasone, cytarabine, cisplatin; PFS, progression-free survival; R-DHAP, rituximab-dexamethasone, cytarabine, cisplatin; R-ICE, rituximab-ifosfamide, etoposide, carboplatin; RR, relative risk.

Salvage Regimens for R/R DLBCL

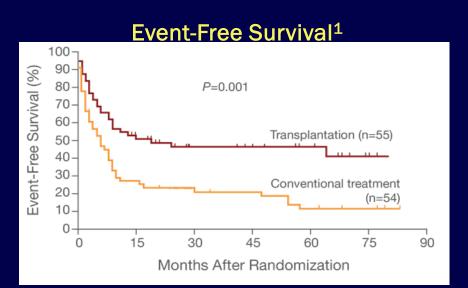
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Table II. Overall response rate of new selected single agents in DLBCL patients.

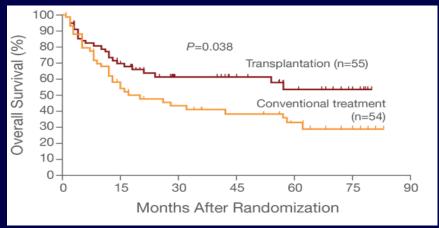
Agent	Target	Status	ORR	DLBCL subtype	References
Ibrutinib	BTK	Phase I/ II	37%	ABC	Wilson et al (2015)
Fostamatinib	SYK	Phase II	3%	DLBCL	Flinn et al (2016)
			22%		Friedberg et al (2010)
Lenalidomide	Immunomodulator	Phase II	42%	DLBCL	Zinzani et al (2015)
			52%	ABC	Hernandez-Ilizaliturri et al (2011)
Bortezomid + chemotherapy	NF-ĸB	Phase II	83%	ABC	Dunleavy et al (2009)
Tazemetostat	EZH2	Phase II	60%	DLBCL	Italiano et al (2018)
Everolimus	mTOR	Phase II	30%	GCB	Witzig et al (2011)
Temsirolimus	mTOR	Phase II	28%	DLBCL	Smith et al (2010)
CUDC 907	$PI3K\delta + HDAC$	Phase II	37%	GCB/MYC	Oki et al (2017)
Bendamustine	Nitrogen mustard/ purine-like	Phase II	44%	DLBCL	Weidmann et al (2002)
Obinutuzumab	CD20	Phase II	32%	DLBCL	Morschhauser et al (2013)
MOR00208	CD19	Phase II	29%	DLBCL	Jurczak et al (2018)
Blinatumumab	B-specific CD19/CD3	Phase II	43%	DLBCL	Viardot et al (2016)
Polatuzumab vedotin	CD79b	Phase I	25%	DLBCL	Palanca-Wessels et al (2015)
Nivolumab	Anti-PD1	Phase I	36%	DLBCL	Lesokhin et al (2016)

ABC, activated B cell; DLBCL, diffuse large B cell lymphoma; GCB, germinal centre B cell; ORR, overall response rate.

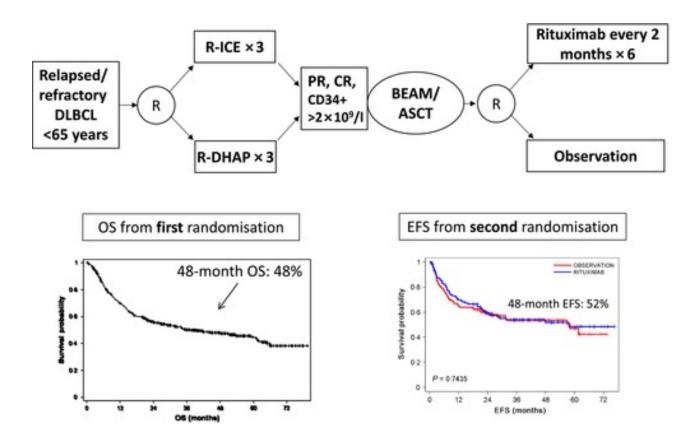
Standard of Care for Chemosensitive R/R DLBCL Is ASCT



Overall Survival¹



- 20% to 50% of patients will relapse or be refractory to R-CHOP, depending on IPI²
- 30% to 40% of patients will respond to salvage chemotherapy and proceed to ASCT²
 - Relative equivalency with intensive salvage regimens
- 50% will relapse after ASCT²



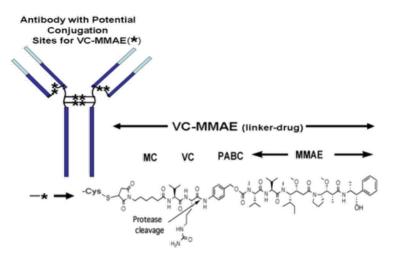
Salvage autologous transplant remains the SOC for R/R Chemo sensitive DLBCL-

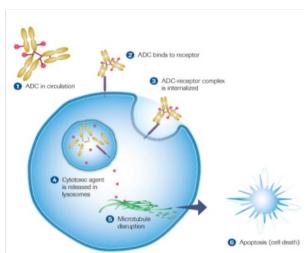
What about when patients are not chemosensitive or are primary refractory?



Polatuzumab vedotin

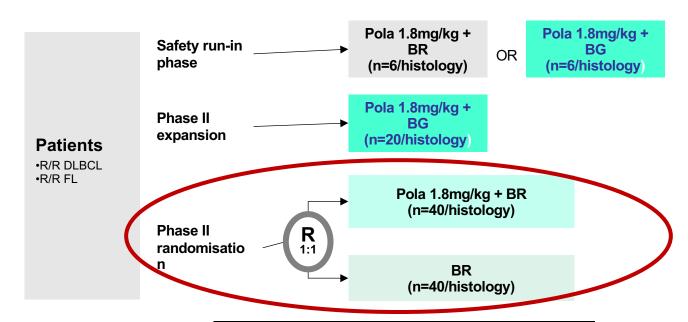
 Polatuzumab vedotin (pola) is an antibody drug conjugate (ADC) consisting of a potent microtubule inhibitor monomethyl auristatin E (MMAE) conjugated to CD79b monoclonal antibody via a proteasecleavable peptide linker





Pola has demonstrated efficacy in R/R DLBCL in combination with rituximab^{1,2}

Treatment	Best overall response
Pola +/- rituximab	51-56% ^{1,2}

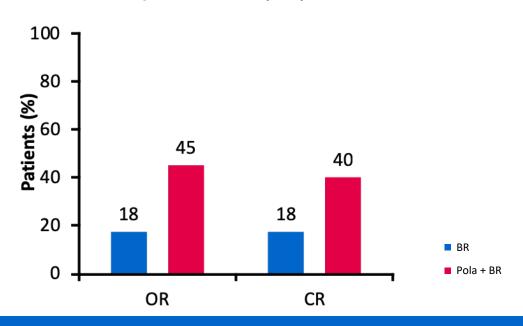


Primary endpoint (Phase II): PET-CR rate according to modified Lugano criteria

BG, bendamustine and obinutuzumab; BR, bendamustine and rituximab; FL, follicular lymphoma; PET-CR, positron electron tomography–complete response; pola, polatuzumab vedotin; R, randomisation; R/R, relapsed/refractory

Polatuzumab vedotin added to bendamustine/rituximab

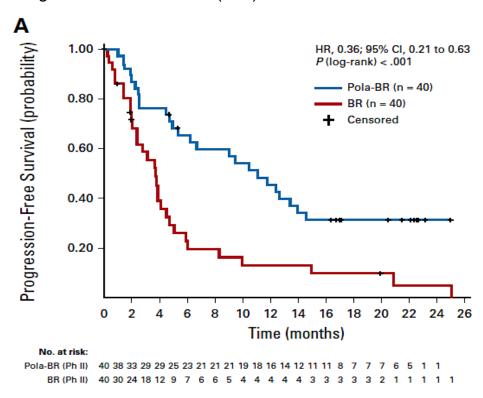




Seven patients have ongoing response durations of ≥20 months at data cut-off

Polatuzumab vedotin added to bendamustine/rituximab

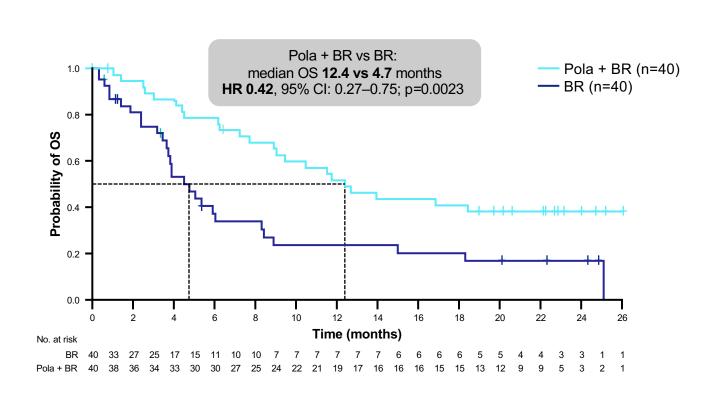
Progression Free Survival (IRC)



- Few patients with durable responses
- Toxicity: hematological, infectious, neurological

Sehn, JCO 2019

Overall Survival

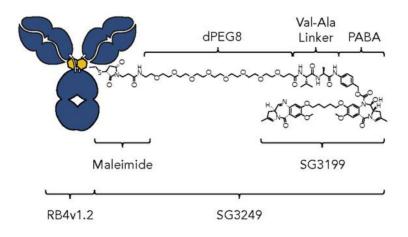


Median follow-up: 22.3 months

Data cut-off: 30 April 2018 BR, bendamustine and rituximab; pola, polatuzumab vedotin

Loncastuximab Tesirine

- Loncastuximab tesirine is an FDA-approved CD19-directed antibody-drug conjugate indicated for adults with R/R large B-cell lymphoma after ≥2 lines of systemic therapy, including patients with HGBCL¹
- ADC delivering SG3199, a cytotoxic DNA minor groove interstrand cross-linking PBD dimer payload^{1,2}
 - Anti-CD19
 - Payload is a PBD toxin
 - DNA cross-linking agent



LOTIS-2: Study Design

- Patients with R/R DLBCL for whom salvage chemotherapy/SCT is unsuccessful and who have a poor prognosis and limited treatment options^{1,2}
- Loncastuximab tesirine comprises a humanized anti-CD19 antibody conjugated to a potent PBD dimer toxin³
- LOTIS-2 is a multicenter, open-label, single-arm, phase 2 study in patients aged ≥18 years with pathologically defined R/R DLBCL and ≥2 prior systemic treatments⁴⁻⁶
 - Included patients with high-risk characteristics such as double-hit, triple-hit, transformed, or primary refractory DLBCL⁴

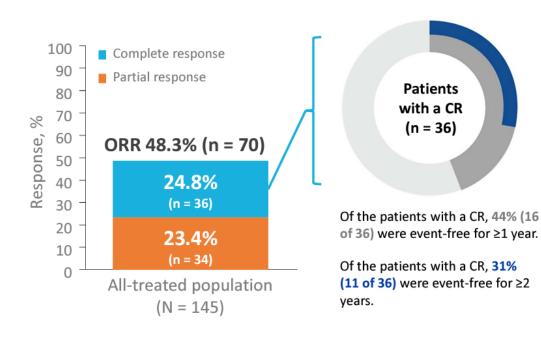


- Primary efficacy and safety data have been published (≥6 months since first dose)⁴
- Presented are updated results (≥17 months since first dose)

Study findings were previously presented as a poster at the International Conference on Malignant Lymphoma (ICML) Virtual Congress, June 18-22, 2021.

- 1. Crump M, et al. Blood. 2017;130(16):1800-1808. 2. Gisselbrecht C, et al. Br J Haematol. 2018;182(5):633-643.
- 3. Zammarchi F, et al. *Blood.* 2018;131(10):1094-1105. 4. Caimi PF, et al. *Lancet Oncol.* 2021;22(6):790-800.
- 5. Caimi PF, et al. ASH 2020. Abstract 1183. 6. Caimi PF, et al. ASCO 2021. Abstract 7546. 7. Caimi PF et al. ICML 2023. Abstract 137.

LOTIS-2: Efficacy Results – ORR and Long-Term Responses



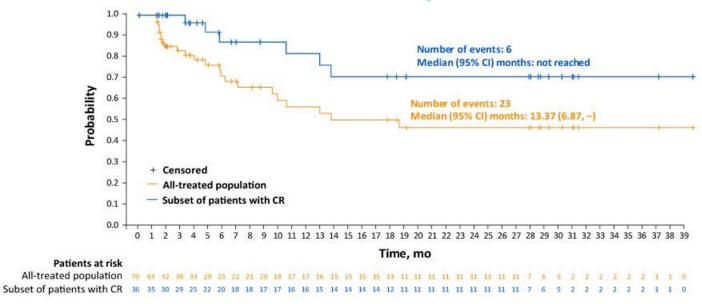
Median (range) number of treatment cycles		
All-treated population	3.0 (1-26)	
Patients with a CR	8.0 (1-26)	
Patients with a CR, event-free ≥1 year ^a	12.5 (1- 26)	
Patients with a CR, event-free ≥2 years ^a	13.0 (1- 22)	

Data cutoff: September 15, 2022. Median duration of follow-up was 7.8 months (range, 0.3-42.6 months) in the all-treated population and 35.0 months (range, 4.-42.6 months) in the patients with a CR. aEvent-free is defined as no progressive disease or death starting from day 1 cycle 1 of loncastuximab tesirine treatment.

Caimi PF et al. ICML 2023. Abstract 137.

LOTIS-2: Efficacy Results – DOR

DOR in All-Treated Population and Patients with a CR



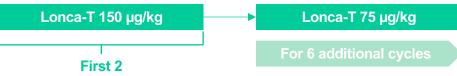
The median (range) time to response was 41 (35-247) days in the all-treated population and 42 (36-247) days for patients with a CR.

Data cutoff: September 15, 2022. Caimi PF et al. ICML 2023. Abstract 137.

LOTIS-5: Initial Safety Run-in Results of Part 1

- LOTIS-5 is a phase 3, randomized, open-label, 2-part, 2-arm, multicenter study of Lonca-T + R in patients with R/R DLBCL with ≥1 previous therapy and unfit for SCT
- In part 1, 20 patients were enrolled in a nonrandomized safety run-in with Lonca-T + R to demonstrate the safety of the Lonca-T + R combination in patients

Nonrandomized Safety Run-in of IV Lonca-T + R q3w (Target N=20)

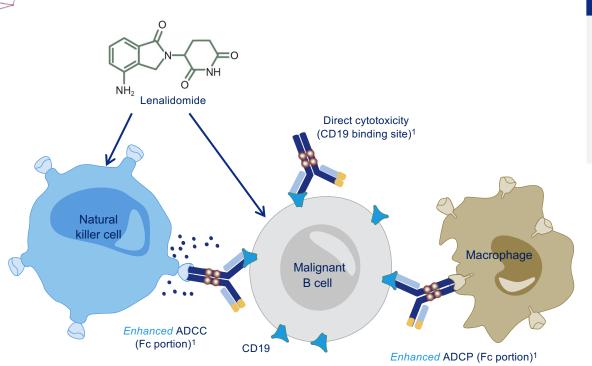


Response Rates by Central Review, n (%)	n=20
ORR	16 (80)
CR	10 (50)
PR	6 (30)

Efficacy in Patients With R/R DLBCL, n (%) [95% CI]	n=20
ORR	16 (80) [56.3-94.3]
CR	10 (50) [27.2-72.8]
PR	6 (30) [11.9-54.3]
Safety endpoints, n (%)	
Any grade TEAE	20 (100)
Rash	5 (25)
Increased GGT	5 (25)
Decreased appetite	4 (20)
Fatigue	4 (20)
Grade ≥3 TEAEs	11 (55)
Increased GGT	5 (25)
Neutropenia	2 (10)

- Median patient age was 74.5 years (range: 35-93)
- Median number of doses administered: 5 (range: 1-8)
- Median duration of follow-up: 10.8 months (range: 1.9-21.9)
- No new safety signals were demonstrated

Tafasitamab and Lenalidomide: Rationale for an Immunological Combination



Affinity-matured CD19 binding site •ADCC ↑ •ADCP ↑ •Direct cell death •Phase IIa study showed single-agent activity in patients with R/R DLBCL and iNHL

Lenalidomide4,5

- T-cell and NK-cell activation/expansion
- · Direct cytotoxic and immunomodulatory effects
- Well-studied as an anti-lymphoma agent, alone or in combination

CD19 = cluster of differentiation 19; mAb = monoclonal antibody; Fc = fragment crystallizable; ADCC = antibody-dependent cellular cytotoxicity; ADCP = antibody-dependent cellular phagocytosis; R/R DLBCL = relapsed/refractory diffuse large B-cell lymphoma; iNHL = indolent non-Hodgkin's lymphoma; NK = natural killer.

- 1. Horton HM, et al. Cancer Res 2008;68:8049-57; 2. Woyach JA, et al. Blood 2014;124:3553-60; 3 Jurczak W, et al. Ann Oncol 2018;29:1266-72; 4. Witzig TE, et al. Ann Oncol 2015; 26:1667-77;
- 5. Czuczman MS, et al. Clin Cancer Res 2017; 23:4127-37. 6. MONJUVI Prescribing Information. Boston, MA: MorphoSys US, Inc.

L-MIND Study Rationale

Unmet need in r/r DLBCL

30%–40% of patients with DLBCL fail to respond or show relapse to initial therapy¹

Patients who fail first-line therapy and are not eligible for HDC/ASCT have a poor outcome and require more therapeutic options¹ Single-agent activity of Tafasitamab-cxix evaluated in r/r B-cell malignancies

A phase I dose-escalation study in 27 patients with R/R CLL showed the preliminary efficacy of Tafasitamab-cxix²

A phase II study of 92 patients demonstrated clinical activity of Tafasitamab-cxix in patients with R/R DLBCL and R/R FL, including those with rituximab-refractory tumors³

Lenalidomide may have synergistic effects with Tafasitamab-cxix

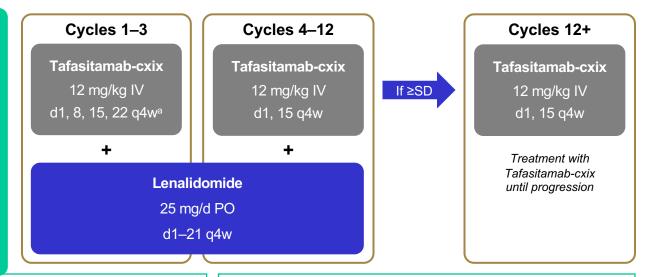
Lenalidomide has been wellstudied as an anti-lymphoma agent, alone or in combination^{4,5}

In an *in vitro* study, NK-cell mediated ADCC with Tafasitamab-cxix was further enhanced by lenalidomide⁶



Phase II L-MIND Study Design and Inclusion Criteria

- N=81
- Age ≥18 years
- R/R DLBCL
- Not eligible for HDT + ASCT
- 1–3 prior regimens
- Primary refractory patients were excluded^b
- ECOG 0–2
- First Data Analysis: November 2018¹
- Updated Long Term Outcomes: November 2019²



Primary endpoint:

ORR (ORR = complete response [CR] + partial response [PR])

Select Secondary endpoints:

PFS, DoR, OS, safety, exploratory and biomarker-based assays

R/R = relapsed or refractory; IV = intravenous; q4w = every 4 weeks; SD = stable disease; HDT = high dose therapy; ASCT = autologous stem cell transplantation; ECOG = Eastern Cooperative Oncology Group; PO = orally; ORR = overall response rate; PFS = progression-free survival; DoR = duration of response; OS = overall survival.

1. Salles G, Duell J, González Barca E, et al. Tafasitamab-cxix plus lenalidomide in relapsed or refractory diffuse large B-cell lymphoma (L-MIND): a multicentre, prospective, single-arm, phase 2 study. Lancet Oncol. 2020 Jun 5;S1470-2045(20)30225-4. doi: 10.1016/S1470-2045(20)30225-4. 2. Salles G, et al. EHA 2020. Abstract EP1201.

^aLoading dose on day 4 of cycle 1 only.

^bPrimary refractory defined as no response to, or progression/relapse during or within 6 months of front-line therapy.

L-MIND: Updated Efficacy Outcomes (IRC)

Long term outcomes from L-MIND: Tafasitamab-cxix + Lenalidomide in R/R DLBCL (Phase II)

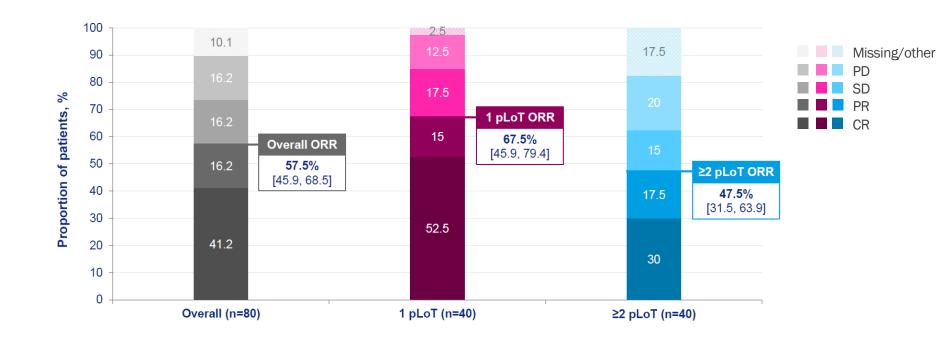
	Nov 2018 ¹	Nov 2019 ³	Nov 2019 ³ 2L
	(n=80)	(n=80)	(n=40)
ORR	60%	57.5%ª	67.5
CR	42.5%	40.0%a	50.0
PR	17.5	17.5	17.5
mDoR	21.7 mo	34.6 mo	34.6 mo
	(21.7, NR)	(26.1, NR)	(21.7, NR)
mPFS	12.1 mo	12.1 mo	23.5 mo
	(5.7, NR)	(6.3, NR)	(7.4, NR)
mOS	NR	31.6 mo	NR
	(18.3, NR)	(13.8, NR)	(24.6, NR)
Patients still on study	N=28	N=22	

The US Prescribing Information(USPI) includes efficacy data on a subset of patients with centrally confirmed diagnoses of DLBCL²: N=71; ORR=55%; mDoR=21.7 mo

^aFor 3 patients, additional data accumulating after Nov '18 cut off changed the radiology adjudication within the Independent Review Committee (IRC). mDoR = median duration of response; mOS = median overall survival.

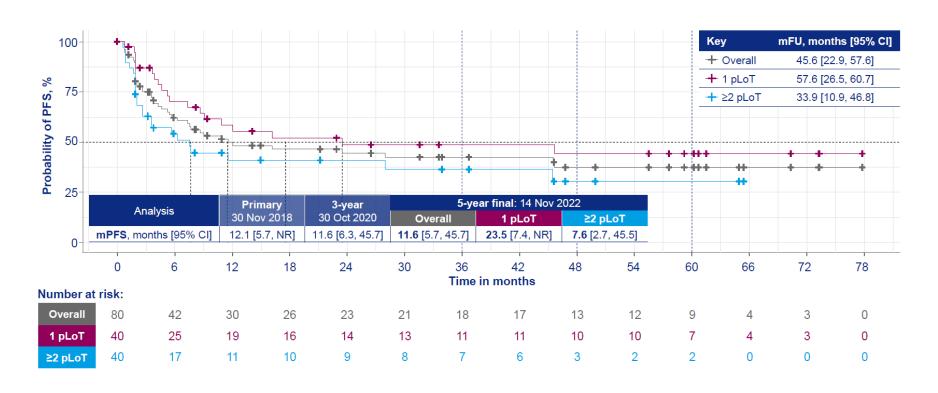
Salles G, Duell J, González Barca E, et al. Tafasitamab plus lenalidomide in relapsed or refractory diffuse large B-cell lymphoma (L-MIND): a multicentre, prospective, single-arm, phase 2 study. *Lancet Oncol*. 2020. 2. MONJUVI Prescribing Information. Boston, MA: MorphoSys US, Inc. 3. Data on File- MOR208C203 EMA Analysis Tables. MorphoSys 2020

L-MIND Final Results: Best Response at 5-Year Follow-Up



Duell J, et al. AACR 2023. Abstract 9810.

L-MIND Final Results: PFS at 5-Year Follow-Up



Duell J, et al. AACR 2023. Abstract 9810.



Bispecific AntiBodies

Bispecific Antibodies in Non-Hodgkin Lymphomas

The Original: Proof of Concept	Newer Therapies		
Blinatumomab ¹	Epcoritamab ²	Glofitamab ³	
α-Target single-chain antibody (scFv) Linker α-CD3 single-chain antibody (scFv)	CD20 CD3	Glofitamab High avidty binding to CD20 on B cells Schort For region satends half-life and reduces toxicity	
CD3 (scFV) × CD19 (scFV)	DuoBody- CD3 × CD20 BsAb	CD3 (Fab) × CD20 (Fab x2) Fc BsAb	

- Numerous bispecific antibody structures exist
- Properties of the bispecific antibody vary by construct

Key Bispecific Antibodies in 3L DLBCL: Efficacy and Safety

	Study Phase		Clinical Trial	ROA	Sample Size	Median Prior LOT	Efficacy: ORR, CR, mDOR/DoCR	Safety All CRS	Safety Grade ≥3 CRS	Safety Other
Epcoritamab ^{1,2} [Hospitalization		Patients with R/R DLBCL and B-NHL after anti-CD20 treatment		SUBQ	DLBCL=46	3 (2-4)	68% ORR, 45% CR (dose 12-60 mg)	59%	0%	Neurological: 6%
required for 24h after dose on C1 D15]					LBCL=157	3 (2-11)	63.1% confirmed ORR by IRC, mDOR 12 mo	49.7%	2.5% (Gr 3)	Pyrexia: 23.6% Neutropenia: 21.7%
Glofitamab^{4,5} [Pretreatment with obinutuzumab required]	P2	Patients with R/R DLBCL after at least 2 prior systemic therapy	NCT03075696 (NP30179)	IV	DLBCL=155	3 (2-7)	52% ORR, 39% CR	63%	4%	Grade ≥3 NEs: 3%

Epcoritamab and glofitamab have been approved by the FDA for use in R/R DLBCL; mosunetuzumab is not approved by the FDA or other regulatory authorities for use in DLBCL.

This table is for illustration only and side-by-side data should be interpreted with great caution.

^{1.} Hutchings M, et al. *Lancet*. 2021;398(10306):1157-1169. **2.** Thieblemont C, et al. *J Clin Oncol*. 2023;41(12):2238-2247. **3.** Bartlett N, et al. *Blood Adv*. 2023;2022009260. **4.** Dickinson MJ, et al. *N Engl J Med*. 2022;387(24):2220-2231. **5.** Dickinson MJ, et al. ASCO 2022. Abstract 7500.



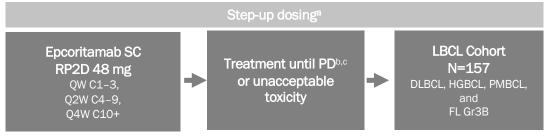
EPCORE NHL-1 Phase 2 Study of Epcoritamab in Patients with R/R LBCL: Study Design

Dose escalation

Key inclusion criteria:

- •R/R CD20⁺ mature B-cell neoplasm
- •ECOG PS 0-2
- •≥2 prior lines of antineoplastic therapy, including ≥1 anti-CD20 mAb
- •FDG PET-avid and measurable disease by CT/MRI
- Prior CAR T-cell therapy allowed

Dose expansion data cutoff: January 31, 2022 Median follow-up: 10.7 mo



- To ensure patient safety and better characterize CRS, inpatient monitoring was required at first full dose for 24 h in this part of the study
- Primary endpoint: ORR by independent review committee (IRC)
- Key secondary endpoints: DOR, TTR, PFS, OS, CR rate, and safety/tolerability

Data cutoff date: January 31, 2022.

EPCORE NHL-1 Phase 2 Study of Epcoritamab in Patients with R/R LBCL: Baseline Patient Characteristics

Demographics, n (%)	LBCL N=157
Median age (range), y	64 (20-83)
<65, n (%)	80 (51.0)
65 to <75, n (%)	48 (30.6)
≥75, n (%)	29 (18.5)
ECOG PS, n (%)	
0	74 (47.1)
1	78 (49.7)
2	5 (3.2)
Disease type	
DLBCL	139 (88.5)
De novo	97/139 (69.8)
Transformed	40/139 (28.8)
Unknown	2/139 (1.4)
DHL/THL, n/N (%)	13/99 (13.1)

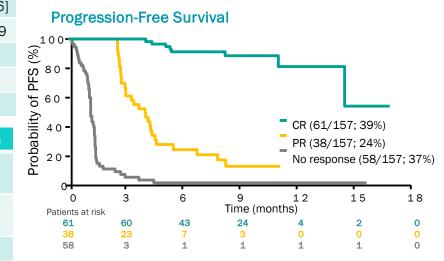
Prior treatments	LBCL N=157
Median time from initial diagnosis to first dose, ^a y (range)	1.6 (0.0- 28.4)
Median prior lines of therapy (range)	3 (2-11)
≥3 Lines of therapy, n (%)	111 (70.7)
Primary refractory ^b disease, n (%)	96 (61.1)
Refractory ^b to last systemic therapy, n (%)	130 (82.8)
Refractory ^b to ≥2 consecutive lines of therapy, n (%)	119 (75.8)
Prior ASCT, n (%)	31 (19.7)
Relapsed within 12 months of prior ASCT, n/N (%)	18/31 (58.1)
Prior CAR T-cell therapy, n (%)	61 (38.9)
Progressed within 6 mo of CAR T-cell therapy, n/N (%)	46/61 (75.4)

EPCORE NHL-1 Phase 2 Study of Epcoritamab in Patients with R/R LBCL: Overall Response, PFS, and OS^{1,2,3}

Best overall response by IRCa	LBCL (N=157)
Overall response, n (%) [95% CI]	99 (63.1) [55.0-70.6]
Complete response, n (%) [95% CI]	61 (38.9) [31.2-46.9
Partial response, n (%)	38 (24.2)
Stable disease, n (%)	5 (3.2)
Progressive disease, n (%)	37 (23.6)

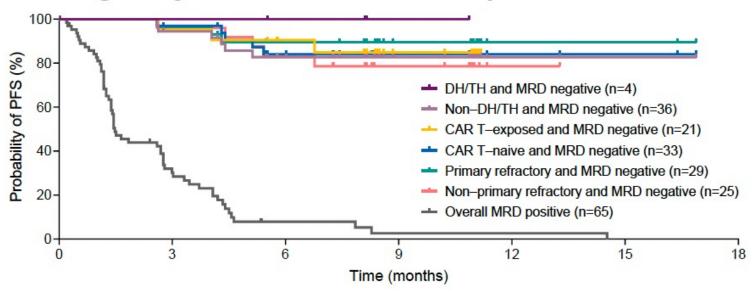
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Kaplan-Meier estimate	LBCL (N=157)	oab
Median PFS for complete responders (95% CI)	NR (14.5-NR)	Probabil 5
Complete responders remaining in CR at 9 mo, $\%$	88.7	Pa
Median PFS, mo (95% CI)	4.4 (3.0-7.9)	
PFS at 6 mo, % (95% CI)	43.9 (35.7- 51.7)	
Median OS, months (95% CI)	18.5 (11.7-NR)	
Median OS for patients who achieved a CR (95% CI)	NR (NR-NR)	2. Abstrac

LB2364. 3. Jurczak W, et al. EHA 2023. Abstract P1118.



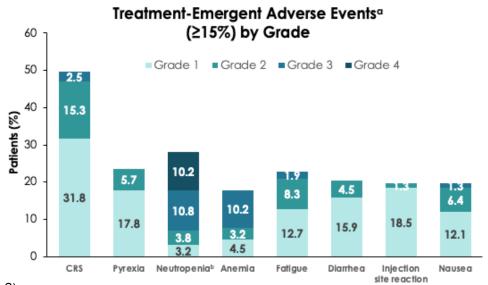
Epcoritamab in R/R DLBCL

MRD Negativity Was Correlated With Improved PFS



EPCORE NHL-1 Phase 2 Study of Epcoritamab in Patients with R/R LBCL: Safety

Follow-up	LBCL, N=157
Median follow-up (range), mo	10.7 (0.3-17.9)
Median number of treatment cycles (range)	5 (1–20)
Ongoing treatment, n (%)	51 (32)
Discontinued treatment, n (%)	106 (68)
PD	83 (53)
AE	11(7)
Related ^d	3 (2)
Allogeneic transplantation	7 (4)
Withdrawal by patient	4 (3)
Other	1 (1)



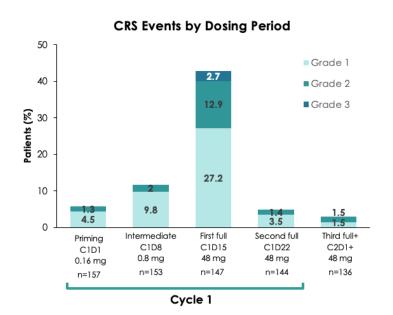
- Most AEs were low grade and occurred early in treatment (C1-3); incidence of AEs declined after 12 weeks
- Ten (6.4%) patients experienced ICANS; 9 were Gr 1/2 and resolved
- 1 patient had ICANS Grade 5, confounded by multiple factors^c

^aCOVID incidence 4.5%. ^bCombined term includes neutropenia and decreased neutrophil count. ^cPatient experienced ICANS after intermediate dose with multiple confounders, including extensive opioid use for Grade 3 pancreatitis, hyperammonemia, multifocal cerebral infarcts in setting of possible microangiopathy, and tocilizumab administration. ^dWorsening CLIPPERS, CRS/fatigue, and ICANS.

Thieblemont C. et al. EHA 2022. Abstract LB2364.

EPCORE NHL-1 Phase 2 Study of Epcoritamab in Patients with R/R LBCL: CRS Safety

n (%)	LBCL N=157
CRS events ^a	78 (49.7)
Grade 1	50 (31.8)
Grade 2	24 (15.3)
Grade 3	4 (2.5)
Median time to onset from first full dose, d	0.8 (20 h)
CRS resolution	77 (98.7)
Median time to resolution from first full dose, d	2 (48 h)
Treated with tocilizumab	22 (14.0)
Treated with corticosteroids	16 (10.2)
Leading to treatment discontinuation	1 (0.6)





Phase 2 Study of Glofitamab in Patients with 3L+ R/R DLBCL: Study Design and Patients

Key Inclusion Criteria:

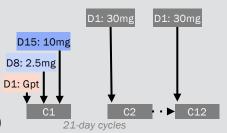
- *DLBCL NOS, HGBCL, transformed FL or PMBCL
- •ECOG PS 0-1
- •≥2 prior therapies, including anti-CD20 antibody and anthracycline

Glofitamab IV Administration:

Fixed-duration treatment (Max 12 Cycles)

CRS mitigation:

- obinutuzumab pretreatment (1 x 1000mg)
- C1 step-up dosing
- monitoring after first dose (2.5mg)



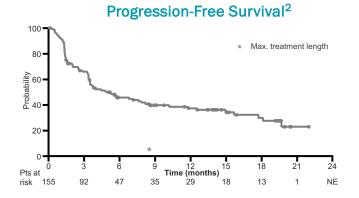
Primary endpoint: CR (best response) rate by IRC^a
Key secondary endpoints: ORR rate^b, DoR, DoCR^b, PFS, and OS

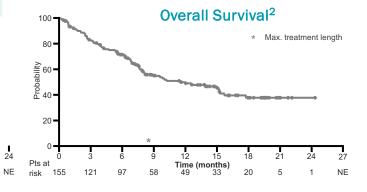
Baseline Characte	ristic, n (%)	N=154		
Median age, years (rang	ge)	66.0 (21-90)		
ECOG PS	0	69 (44.8)		
ECOU PS	1	84 (54.5)		
	1	10 (6.5)		
Ann Arbor stage	II	25 (16.2)		
Alli Alboi Stage	III	31 (20.1)		
	IV	85 (55.2)		
	DLBCL	110 (71.4)		
NHL subtype	trFL	27 (17.5)		
	HGBCL	11 (7.1)		
	PMBCL	6 (3.9)		
Median no. of prior line	s, n (range)	3 (2-7)		
≥3 prior lines	92 (59.7)			
Prior anti-CD20 Ab	154 (100.0)			
Prior anthracycline		149 (96.8)		
Prior CAR-T		51 (33.1)		
Prior ASCT		28 (18.2)		
Refractory to any prior t	herapy	139 (90.3)		
Refractory to last prior t	132 (85.7)			
Primary refractory	90 (58.4)			
Refractory to prior CAR-	46 (29.9)			
Refractory to any prior a	anti-CD20	128 (83.1)		

Phase 2 Study of Glofitamab in Patients with 3L+ R/R DLBCL: Efficacy

Efficacy Endpoint ^{1,2}	Glofitamab 2.5/10/30mg (n=155)
CR rate ^a	61 (39.4%) [95% CI: 31.6%-47.5%]
ORRa	80 (51.6%) [95% CI: 43.5%-59.7%]
Median PFS follow-up, mo (range)	12.6 (0-22)
Median PFS, months (95% CI)	4.9 (3.4, 8.1)
Median OS, months (95% CI)	11.5 (7.9, 15.7)

Duration of Overall Response ²	n=80		
Median DoR follow-up, mo (range)	10.6 (0-21)		
12-months DoR, % (95% CI)	63.6 (51.1, 76.2)		
ORs ongoing at CCOD, n (%)	53 (66.3)		
Duration of CR ²	n=61		
Median DoCR follow-up, mo (range)	10.6 (0-21)		
• •	10.6 (0-21) 77.6 (64.3, 90.8)		



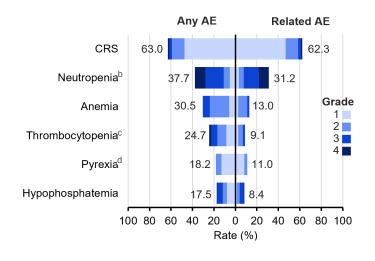




Phase 2 Study of Glofitamab in Patients with 3L+ R/R DLBCL: Safety (Cont'd)

Adverse event, n (%)	N=154			
Median no. of cycles received (range)	5 (1-13)			
Median relative dose intensity, % (range)	100 (94-100)			
AE	152 (98.7)			
Related AE	140 (90.9)			
Grade 3-4 AE	87 (56.5)			
Related AE	64 (41.6)			
Serious AE	73 (47.4)			
Related AE	46 (29.9)			
Grade 5 (fatal AE)	8 (5.2) ^a			
Related AE	0			
AE leading to treatment discontinuation	14 (9.1)			
Related AE	5 (3.2)			

AEs (≥15%) by grade and relationship with glofitamab



DLBCL Bottom Line

- Stage I/II-R-CHOP x 3 + IF XRT
 - Vs R-CHOP x 4 w/o XRT (Flyer trial)-low IPI
- Stage III/IV-R-CHOP x 6 vs Pola-CHP
 - Many: Pola-CHP "all comers"-Me: Only in higher risk (high IPI/DEL/ABC)
 - DHL (?DEL)- DA-R-EPOCH + CNS ppx
- Chemo-sensitive relapse (fit < 70)-RICE/R-DHAP/R-Gem-Ox + AutoPSCT</p>
 - Many (R/R w/in 1 yr-CAR T), Me: chemosensitivity counts-ASCT
- Primary Refractory (?) relapse w/in 12 months consider CAR T
- Chemo-insensitive/post-Auto relapse/CAR T failure-consider mini-Allo
- NO SOC for other salvage, But:
 - Consider Tafa/Len 2nd line not ASCT/CAR T candidate
 - Lonca and bispecifics 3rd line
- Always consider clinical trials at <u>every</u> step

NCCN Guidelines®: Preferred Treatment Regimens for R/R DLBCL

RECENTLY APPROVED NOT <u>A</u>PPROVED

Patient Segment		Treatment Regimens (NCCN Guidelines® v5.2023)							
1L		R-CHOP		R + Chemo ^a			Pola-R-CHP		
	Intention for ASCT	ASCT ^b							
	Relapse <12 mo/primary refractory disease	Axi-cel ^c (Category 1)				Liso-cel ^c			
2L	Relapse >12 month but ASCT ineligble or relapse	CAR T-cell therapy ^c (Liso-cel) Bend		Polatuzumab vedotin ± endamustine ± Rituximab (Pola-BR)		la-BR)	Tafa + Len		
	<12 month and primary refactory but non-CAR T- cell therapy candidate	Brentuximab vedotin (CD30+ disease)		brutinib GCB DLBCL)	R + Len (non-GCB			mo ± R em0x ± R)	R
21.	≥2 prior regimens	CAR T-cell therapy ^c (Axi-cel, Liso-cel, Tisa-cel)		castuximab cesirine	Selinexor	Glo	fitamab	Epcorita	mab
3L+	Post-ASCT or CAR T-cell therapy	Selinexor							

^a Patients with poor left ventricular function, very frail, with comorbidities, or aged >80 years. ^b Salvage chemotherapy ± rituximab precedes ASCT. ^c Bridging chemotherapy precedes CAR T-cell therapy.

NCCN Clinical Practice Guidelines: B-Cell Lymphomas. Version 5.2023.

